

HS Horns

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Invented for life



- ▶ 24 VDC, filtered or FWR
- ▶ Continuous or temporal (Code 3) horn tones
- ▶ Selectable dBA settings (high, medium, or low)
- ▶ Easy wall mounting on a variety of back boxes

These Wheelock horns are UL Listed for indoor wall-mount applications. They provide a choice of continuous horn tone or temporal (Code 3) horn tone with three selectable sound output (dBA) settings for each tone. The temporal tone can be synchronized by using an SM (single) or DSM (dual) Synchronization Module or a compatible control panel. These horns can also be used on coded systems where the applied voltage is cycled on and off.

Certifications and approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification	
USA	UL	ULSZ: Audible Signal Appliances (UL464)
	CSFM	see our website

Installation/configuration notes

Compatible Products

The following products are compatible with the HS-24 Horns:

Category	Product ID	Product Description
Control Panels	D7022 ¹	Conventional FACP
	D7024 ²	Addressable FACP
	D7024	Conventional FACP
	D8024 ¹	Analog FACP
	D9124 ¹	Addressable FACP
	D10024A ¹	Analog FACP
	FPD-7024 ²	Addressable FACP
Modules	FPD-7024	Conventional FACP
	SM-12/24-R	Synchronization module (red)
	DSM-12/24-R	Dual synchronization module (red)
	RSSP-241575W-FR	Fixed-candela retrofit strobe plate
	RSSP-24MCW-FR	Multi-candela retrofit strobe plate
	RSSP-24MCWH-FR	High-candela retrofit strobe plate

¹ For synchronization, use the SM or DSM Synchronization Modules. The synchronization module must be set for 24 VDC operation. When used, the D7022 must be set for 24 VDC operation.

² When used with a D7039 Multiplex Expansion Module, the FPD-7024 and D7024 become addressable fire alarm control panels (FACPs).

Mounting Considerations

Indoor Applications

Mount these HS-24-R and HS-24-W Horns on the indicated back boxes for the indicated applications:

	Conduit Applications	Surface Mounted	Flush Mounted
Double-gang			•
Four-inch square			•
100-mm European			•
IOB ¹	•	•	
SHBB-R	•	•	

¹ Although the IOB Back Box is an indoor or outdoor box, the HS24 Series Horns are only UL Listed for indoor applications.

Use as Combination Appliance

Where combination appliances are required, the HS Horns can be used with the RSSP-241575W-FR (15/75 cd), RSSP-24MCW-FR (15 cd, 30 cd, 75 cd, or 110 cd), or RSSP-24MCWH-FR (135 cd or 185 cd) Retrofit Strobe Plates that are designed to meet or exceed the latest requirements of NFPA 72, ANSI 117.0 and UL 1971. The horns and retrofit strobe plates are also compatible with the SBL2-R Retrofit Device Back Box.

Wiring

The input terminals accept wires with diameters between 18 AWG and 12 AWG (ISO 0.75 mm² and 4 mm²).

Parts included

Quant.	Component
1	Horn
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Current (maximum) VDC:	High dBA: 110 mA Medium dBA: 68 mA Low dBA: 27 mA
Current (maximum) VFWR:	High dBA: 94 mA Medium dBA: 50 mA Low dBA: 41 mA
Voltage (input)	24 VDC nominal filtered or FWR 16 VDC to 33 VDC

Environmental

Relative Humidity:	Up to 85%, non-condensing
Temperature (Operating):	+32°F to +120°F (0°C to +49°C)

Mechanical

Dimensions (H x W x D):	4.125 in. x 4.125 in. x 1.25 in. (10.5 cm x 10.5 cm x 3.2 cm)
Material:	Molded plastic enclosure

Horn Ratings at 24 VDC

Continuous Horn

Reverberant dBA at 10 ft (3 m) per UL464:	High: 91 dBA Medium: 88 dBA Low: 83 dBA
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Temporal (Code 3) Horn

Reverberant dBA at 10 ft (3 m) per UL464:	High: 87 dBA Medium: 84 dBA Low: 79 dBA
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Notice

The sound output for the Temporal (Code 3) mode is rated lower than in Continuous mode because the time that the horn is off is averaged into the sound output rating. When the horn produces a tone in Temporal mode, its sound pressure is the same as the Continuous mode.

Ordering information

HS-24-R Two-wire Horn (red)

Red, 24 VDC, two-wire horn with three selectable sound output (dBA) settings and a choice of continuous or temporal (Code 3) horn
Order number **HS-24-R**

HS-24-W Two-wire Horn (white)

White, 24 VDC, two-wire horn with three selectable sound output (dBA) settings and a choice of continuous or temporal (Code 3) horn
Order number **HS-24-W**

Accessories**DBB-R Steel Back Box (red)**

8.6 cm (3.375 in.) square, 5.6 cm (2.1875 in.) deep
Order number **DBB-R**

IOB-R Indoor or Outdoor Back Box (red)

13.3 cm (5.25 in.) square, 6.7 cm (2.625 in.) deep
Order number **IOB-R**

ISP2-R Surface Adapter (red)

13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep
Order number **ISP2-R**

ISP2-W Surface Adapter (white)

13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep
Order number **ISP2-W**

RP-R Retrofit Plate (red)

20.3 cm (8 in.) high, 14.9 cm (5.875 in.) wide
Order number **RP-R**

SBB-R Surface-mount Back Box (red)

14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)
Order number **SBB-R**

SBB-W Surface-mount Back Box (white)

14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)
Order number **SBB-W**

SFP-R Semi-flush Plate (red)

15.2 cm (6 in.) square by 0.8 cm (0.3125 in.) thick
Order number **SFP-R**

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